

Product datasheet

Anti-p21 antibody ab47452

1 References [画像数 2](#)

製品の概要

製品名	Anti-p21 antibody
製品の詳細	Rabbit polyclonal to p21
由来種	Rabbit
特異性	This antibody detects endogenous levels of p21Cip1 protein around Threonine 145.
アプリケーション	適用あり: WB, ELISA
種交差性	交差種: Human
免疫原	Synthesized non phosphopeptide derived from human p21 around the phosphorylation site of Threonine 145.
ポジティブ・コントロール	HeLa cell extracts.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
精製度	Immunogen affinity purified
特記事項 (精製)	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
ポリモノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab47452** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

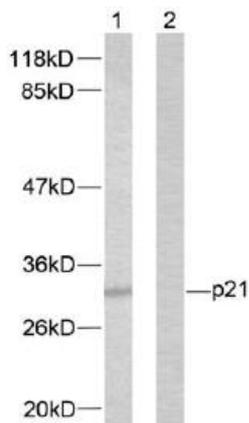
アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Detects a band of approximately 32 kDa (predicted molecular weight: 18 kDa).

アプリケーション	Abreviews	特記事項
ELISA		1/20000.

ターゲット情報

機能	May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.
組織特異性	Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.
配列類似性	Belongs to the CDI family.
ドメイン	The PIP-box K+4 motif mediates both the interaction with PCNA and the recruitment of the DCX(DTL) complex: while the PIP-box interacts with PCNA, the presence of the K+4 submotif, recruits the DCX(DTL) complex, leading to its ubiquitination. The C-terminal is required for nuclear localization of the cyclin D-CDK4 complex.
翻訳後修飾	Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA. Phosphorylation at Ser-114 by GSK3-beta enhances ubiquitination by the DCX(DTL) complex. Ubiquitinated by MKRN1; leading to polyubiquitination and 26S proteasome-dependent degradation. Ubiquitinated by the DCX(DTL) complex, also named CRL4(CDT2) complex, leading to its degradation during S phase or following UV irradiation. Ubiquitination by the DCX(DTL) complex is essential to control replication licensing and is PCNA-dependent: interacts with PCNA via its PIP-box, while the presence of the containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to its degradation.
細胞内局在	Cytoplasm. Nucleus.

画像



Western blot - Anti-p21 antibody (ab47452)

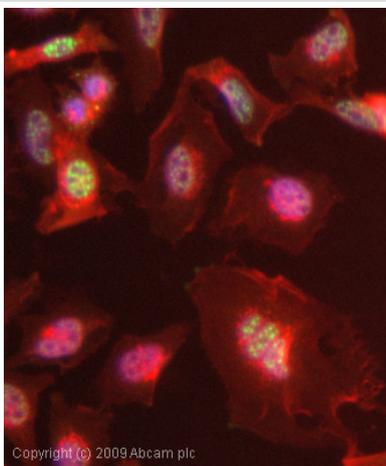
All lanes : Anti-p21 antibody (ab47452) at 1/500 dilution

Lane 1 : 5-30 ug Extracts from HeLa cells treated with EGF. No peptide.

Lane 2 : 5-30 ug Extracts from HeLa cells treated with EGF. Preincubated with synthesized peptide.

Predicted band size: 18 kDa

Observed band size: 32 kDa



Immunocytochemistry/ Immunofluorescence - Anti-p21 antibody (ab47452)

ICC/IF image of ab47452 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47452, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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